

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: _____ Examiner #: _____ Date: _____
 Art Unit: _____ Phone Number 30 _____ Serial Number: _____
 Mail Box and Bldg/Room Location: _____ Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

Earliest Priority Filing Date: _____

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

Jan Delaval
 Reference Librarian
 Biotechnology & Chemical Library
 CM1 1E07 - 703-308-4498
 jan.delaval@uspto.gov

STAFF USE ONLY

Searcher: Jan

Searcher Phone #: 4468

Searches Location: _____

Date Searcher Picked Up: 3/12/03

Date Completed: 3/13/03

Searcher Prep & Review Time: _____

Clinical Prep Time: 10

Online Time: 10

Type of Search

NA Sequence (#) _____

AA Sequence (#) ☒ _____

Structure (#) _____

Bibliographic _____

Litigation _____

Fulltext _____

Patent Family _____

Other _____

Vendors and cost when

STN _____

Dialog _____

Questel/Orbit _____

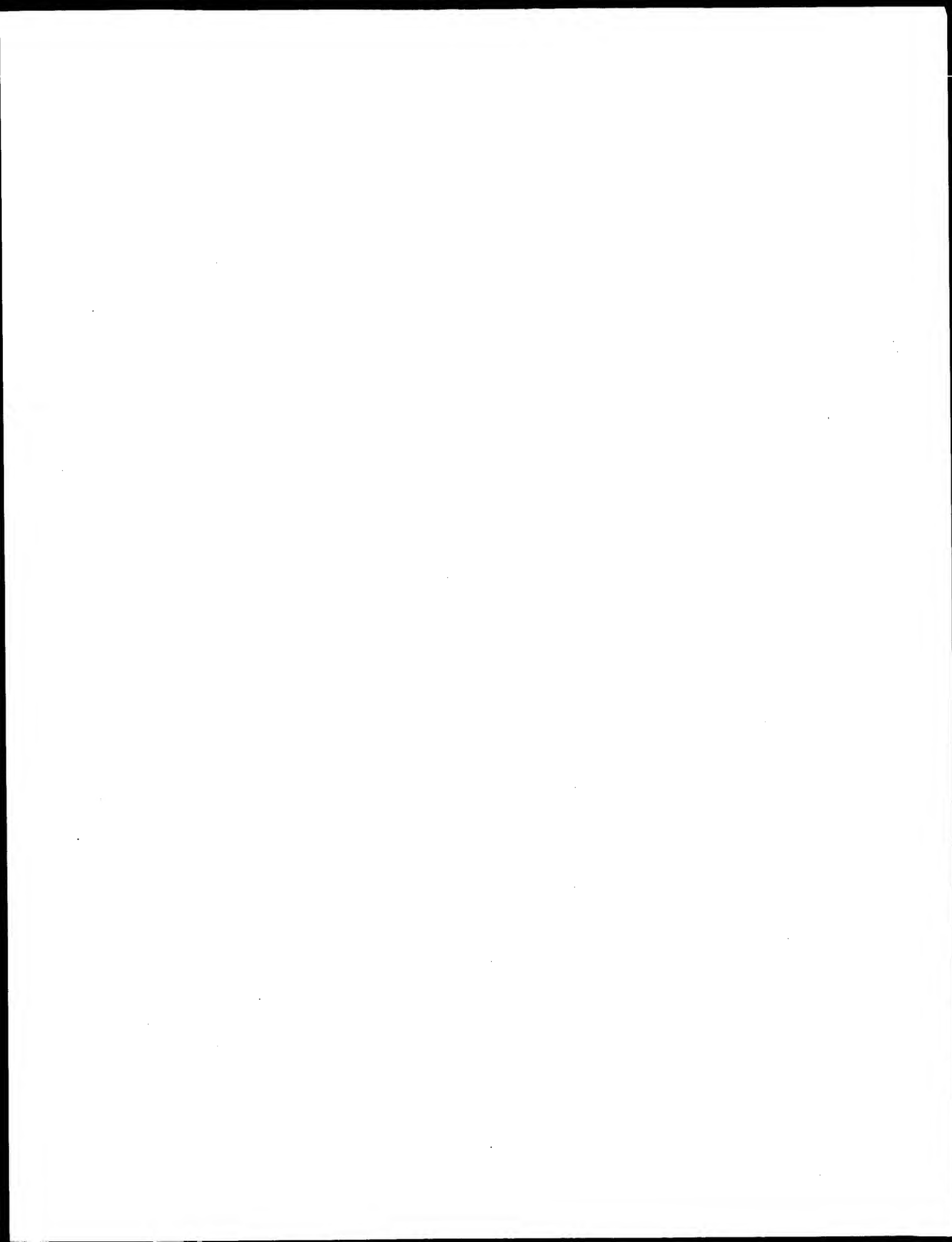
Dr.Link _____

Lexis/Nexis ☒ _____

Sequence Systems _____

WWW/Internet _____

Other (specify) _____



GenCore version 5.1.4.p5.4578
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OM protein - protein search, using sw model

Run on: March 13, 2003, 18:04:22 ; Search time 12 Seconds
(without alignments) 453.239 Million cell updates/sec

Title: US-09-600-787-1

Perfect score: 610
Sequence: -1 DEOPTITSGSNMTVRSKSN.....NTVSGSNHVVSGSNKVTYTD 118

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 199416 seqs, 46092074 residues

Total number of hits satisfying chosen parameters: 199416

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications,AA:*
1: /cgn2_6/ptodata/1/pubppa/US08_NEW_PUB.pep.*
2: /cgn2_6/ptodata/1/pubppa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/1/pubppa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/1/pubppa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubppa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/1/pubppa/US07_PUBCOMB.pep.*
7: /cgn2_6/ptodata/1/pubppa/PCTUS_PUBCOMB.pep.*
8: /cgn2_6/ptodata/1/pubppa/US08_PUBCOMB.pep.*
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13: /cgn2_6/ptodata/1/pubppa/US60_NEW_PUB.pep.*
14: /cgn2_6/ptodata/1/pubppa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	172	28.2	892	9	US-09-952-267-5
2	171	28.0	624	9	US-09-952-267-7
3	169.5	27.8	941	9	US-09-952-267-9
4	166	27.2	889	9	US-09-952-267-15
5	150.5	22.7	873	9	US-09-952-267-13
6	137.5	22.5	831	9	US-09-952-267-1
7	122.5	20.1	2150	9	US-10-135-322-17
8	110.5	18.1	568	9	US-10-086-510-5
9	109.5	18.0	611	9	US-10-086-510-4
10	109	17.9	1599	9	US-10-092-880-9
11	109	17.9	1600	9	US-10-092-880-10
12	108.5	17.8	180	10	US-09-864-761-37769
13	107	17.5	861	9	US-09-820-843A-109
14	106	17.4	623	9	US-10-108-605-125
15	106	17.4	623	9	US-10-108-605-129
16	106	17.4	871	10	US-09-886-468-21
17	105.5	17.3	676	10	US-09-801-368-302
18	104.5	17.1	2122	9	US-09-813-214A-9
19	103.5	17.0	666	10	US-09-801-368-36

20	103	16.9	117	10	US-09-864-761-34734	Sequence 34734, A
21	103	16.9	1336	9	US-10-092-880-2	Sequence 2, App11
22	101	16.6	536	9	US-10-063-547-100	Sequence 100, App
23	101	16.6	536	9	US-10-174-590-310	Sequence 310, App
24	101	16.6	536	9	US-10-176-758-310	Sequence 310, App
25	101	16.6	536	9	US-10-063-616-100	Sequence 100, App
26	101	16.6	536	9	US-10-175-737-310	Sequence 310, App
27	101	16.6	536	9	US-10-063-502-100	Sequence 100, App
28	101	16.6	536	9	US-10-173-706-310	Sequence 310, App
29	101	16.6	536	9	US-10-175-738-310	Sequence 310, App
30	101	16.6	536	9	US-10-175-752-310	Sequence 310, App
31	101	16.6	536	9	US-10-176-482-310	Sequence 310, App
32	101	16.6	536	9	US-10-176-482-310	Sequence 310, App
33	101	16.6	536	9	US-10-176-913-310	Sequence 310, App
34	101	16.6	536	9	US-10-180-552-310	Sequence 310, App
35	101	16.6	536	9	US-10-180-557-310	Sequence 310, App
36	101	16.6	536	9	US-10-173-700-310	Sequence 310, App
37	101	16.6	536	9	US-10-174-572-310	Sequence 310, App
38	101	16.6	536	9	US-10-174-572-310	Sequence 310, App
39	101	16.6	536	9	US-10-174-582-310	Sequence 310, App
40	101	16.6	536	9	US-10-174-588-310	Sequence 310, App
41	101	16.6	536	9	US-10-175-739-310	Sequence 310, App
42	101	16.6	536	9	US-10-175-740-310	Sequence 310, App
43	101	16.6	536	9	US-10-175-743-310	Sequence 310, App
44	101	16.6	536	9	US-10-176-488-310	Sequence 310, App
45	101	16.6	536	9	US-10-176-492-310	Sequence 310, App

ALIGNMENTS

```
RESULT 1
US-09-952-267-5
; Sequence 5, Application US/09952267
; Publication No. US20030032772A1
; GENERAL INFORMATION:
; APPLICANT: HANSEN, ERIC J.
; APPLICANT: AEBI, CHRISTOPH
; APPLICANT: COPE, LESLIE D.
; APPLICANT: MACIVER, ISOBEL
; APPLICANT: FISKE, MICHAEL J.
; APPLICANT: FREDENBURG, ROSS A.
; TITLE OF INVENTION: USPA1 AND USPA2 ANTIGENS OF MORAXELLA CATARRHALIS
; FILE REFERENCE: AMCY:024
; CURRENT APPLICATION NUMBER: US/09/952,267
; PRIOR FILING DATE: 2001-09-12
; PRIOR APPLICATION NUMBER: 09/336,447
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 892
; TYPE: PRT
; ORGANISM: Moraxella catarrhalis
US-09-952-267-5

Query Match      28.2%, Score 172; DB 9; Length 892;
Best Local Similarity 32.7%; Pred. No. 1.4e-08;
Matches 35; Conservative 19; Mismatches 47; Indels 6; Gaps 1;

OY 9 GSNNTVRSKSNVLAVAGNDNTVSGSNNNTVSGNDNTVGSNNHVVSGTNHVTVD 68
   |:::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Db 143 GDSSTIGGIGVNOATGKESTVAGGRNNOATGNNSTVAGGSYNQATGNNSTVAGGSH 198
   |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
OY 69 NNNVNSGNDNNVSGSEPHVSGHNTVSGSNNNTVSGSNHVVSGSKVY 115
   |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Db 199 --NOATGGSFPAAGYENKANNANNAVALGKNNTIDGDSVALGSNNTI 243
   |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|

RESULT 2
US-09-952-267-7
; Sequence 7, Application US/09952267
; Publication No. US20030032772A1
```

Query Match	27.8%	Score 169.5	DB 9%	Length 941
Best Local Similarity	35.8%	Pred. No. 2.5e-08		
Matches 43	Conservative 18	Mismatches 50	Indels 9	Gaps 4
Qy	5	NTTSGSNNTVRSQSGKVVVLGANDNTVLTSGDNNSTVSGSNNTVYVSCNDTVTYGSNH-VYSGTN	63	
Db	108	NEAIGKNSYVGGGTFEAMGEYFTVAGGANNQAKGNYSTVGGGNGKAKALGNSTNYVGGSN	167	
Qy	64	HIVTDNNNNVSGDNNV---SGSF-----HTVSGGHNTV-GSNNTVYSGSHHYVSGSNKYV	115	

Query Match	24.78;	Score 150.5;	DB 9;	Length 873;
Best Local Similarity	26.78;	Pred. No. 1.4e-06;		
Matches 40;	Conservative 24;	Mismatches 47;	Indels 39;	Gaps 5

```

QY      5  NTSSGNNVTGSGSKNVLACGDNDFYICSDNNNSVGSNNVTGCGDNFTYGSNNHYVSG -T 62
      1  : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      114 NEAKESSTIGCGDNNKATGMYSTTIGCGDNNNSATGGRSTIACGMLNQATGHSSTYVAGGWL 173
      1  : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY      63 NHITVDNN-----NNVSGDNNVSGSF-----HTVSG-----90
      1  : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      174 NQATNENSTVGGRNQATGKRNSYVAGGYKKKATGVDSITAGGRNNQANGTGFPAAGIDN 233
      1  : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY      91 ----HTVYS-GSNNVTGSGNNHYVSGSKNV 115
      1  : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      234 QAMANNVTVALGNKNTLTKGDSVALGSGNNVT 263

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RESULT 6
 US-09-952-267-1
 : Sequence 1, Application US/09952267
 : Publication No. us2003003272A1
 : GENERAL INFORMATION:
 : APPLICANT: HANSEN, ERIC J.
 : APPLICANT: AEBI, CHRISTOPH
 : APPLICANT: COPE, LESLIE D.
 : APPLICANT: MACIVER, ISABEL
 : APPLICANT: FTSKE, MICHAEL J.
 : APPLICANT: FREDENBURG, ROSS A.
 : TITLE OF INVENTION: USPA1 AND USPA2 ANTIGENS OF MORAXELLA CATARRHALIS
 : FILE REFERENCE: AMCY:024
 : CURRENT APPLICATION NUMBER: US/09/952,267
 : CURRENT FILING DATE: 2001-09-12
 : PRIOR APPLICATION NUMBER: 09/336,447
 : PRIOR FILING DATE: 1999-06-21
 : NUMBER OF SEQ ID NOS: 98
 : SOFTWARE: PatentIn Ver. 2.1
 : SEQ ID NO 1
 : LENGTH: 831
 : TYPE: PRT
 : ORGANISM: Moraxella catarrhalis
 : US-09-952-267-1

	Query Match:	22.5%;	Score	137.5;	DB	9;	Length	831;
	Best Local Similarity	27.7%;	Pred.	No.7.2e-05;				
	Matches	31;	Conservative	21;	Mismatches	59;	Indels	1;
	Gaps							1
Oy	5	NTTGSGNNPFRSSKRVVLGDNIIVISDNGVSGSNTTYSAGNDNVTS-	NNYVSGN	63				
	:	: :	: :	: :	: :	: :	: :	: :
Dd	110	NKDEGRSTIGGSGNNEATNETYSTIYGDDDKATRIST	IGGGDNTRREGSYTVAGGN	169				
	:	: :	: :	: :	: :	: :	: :	: :
Oy	64	HIYTDNNNVSGDNNVSGSFHTVSGGHNTYSGSNNTVSGSNHYVSGSKV	115					
	:	: :	: :	: :	: :	: :	: :	: :
Dd	170	NOATGTGSEFAGVENQANENAVAGKKNIILEGENSVSAIGSENVTKEHKRV	221					
	:	: :	: :	: :	: :	: :	: :	: :

RESULT 7
 US-10-135-322-17
 Sequence 17, Application US/10135322
 Patent No. US20020173017A1
 GENERAL INFORMATION:
 APPLICANT: BENEFY, PN
 APPLICANT: HELARIUTTA, Y
 APPLICANT: MAHONEN, AP
 APPLICANT: BOKKE, AMM
 APPLICANT: - KAMPPIINEN, L
 APPLICANT: RIIKKONEN, M
 TITLE OF INVENTION: WOODEN LEG GENE, PROMOTER AND USES THEREOF
 FILE REFERENCE: 5914-086-999
 CURRENT APPLICATION NUMBER: US/10/135,322
 CURRENT FILING DATE: 2002-04-30
 PRIOR APPLICATION NUMBER: 60/253,739
 PRIOR FILING DATE: 2000-11-29
 NUMBER OF SEQ. ID NOS: 43
 SOFTWARE: PatentIn version 3.0
 SEQ ID NO 17
 LENGTH: 2150

```

; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
US-10-135-322-17

```

Query Match 20.1%; Score 122.5; DB 9; Length 2150;
Best Local Similarity 29.0%; Pred. No. 0.0017;
Matches 29; Conservative 24; Mismatches 46; Indels 1; Gaps 1.

QY 1 DEQNTISSNNTVRSGSKNYLAGNDNTVISGDNNSVGSNNTVYSGNDNTVTGSNHVVS 60
+ : ||| : | | : : : ||| : || : | :
Db 649 DDDNDNGSNNTNSNNSNNNNNNNNSSNNNNNNNNNNNNNNNNNNNNNNNNNNNN 708

DQ 61 GINHIVDNNNSVSGNDNNV-SSSFHYVSGGHTVSSGNN 99
| : |||| : |:|| :| : : :| :
DP 709 NNNNNNNNNNNNNNNNNYHGATMMMSHNGSIGWSSS 748

```

RESULT 8
US-10-086-510-5
; Sequence 5, Application US/10086510
; Publication No. US20030027258A1
; GENERAL INFORMATION:
; APPLICANT: Fang-Jseh (Frank) CHANG et al.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR PEARL
; TITLE OF INVENTION: OYSTER CULTIVATION
; FILE REFERENCE: 505493000120
; CURRENT APPLICATION NUMBER: US/10/086,510
; CURRENT FILING DATE: 2002-02-27
; PRIOR APPLICATION NUMBER: 60/310,070
; PRIOR FILING DATE: 2001-08-02
; NUMBER OF SEQ. ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ. ID NO 5
; LENGTH: 568
; TYPE: PR1
; ORGANISM: Pinctada maxima
; US-10-086-510-5

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	Query Match	18.1%	Score 110.5:	DB 9:	Length 568;
	Best Local Similarity	28.3%:	Pred. No. 0.0048:		
	Matches	32:	Conservative	21:	Mismatches 55; Indels 5; Gaps 2.
QY	1	DEQPNTIGSSNNMVRGSGKNVLGNDRNVI	GDDNNVSYSNNTVSGNDTPTGSNHVYS	60	
		: : :	:	:	
Dd	243	DNGNNCDNCGNNGNDNNGCNGNNGNNGN	GGNGNYGMN----	GDNNGNCGNNGNNGTYGNGNGYN	298
QY	61	GTHIIVTDNNNNVSGDNNVSGSFHTVSGH-	NTVSGSNNTVSGSNNVSGSN	112	
		: : : : :	: : : :	: : : :	
Dd	299	GNNNGNNGNNDNNGNDNNGNNGCNGNNG	CNGNNGNNGNNGNNGNNGNNGNNGN	351	

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RESULT 9
US-10-086-510-4
: Sequence 4, Application US/10086510
: Publication No. US20030027258A1
GENERAL INFORMATION:
APPLICANT: Fang T'seh (Frank) CHANG et al.
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR PEARL
FILE REFERENCE: 505493000120
CURRENT APPLICATION NUMBER: US/10/086,510
CURRENT FILING DATE: 2002-02-27
PRIOR APPLICATION NUMBER: 60/310,070
PRIOR FILING DATE: 2001-08-02
NUMBER OF SEQ ID NOS: 6
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO. 4
LENGTH: 611
TYPE: PRT
ORGANISM: Plinctada margaritifera
US-10-086-510-4

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Query Match 18.0%; Score 109.5; DB 9; Length 611;

```

; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AL009178.4

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QY. 99 N 99
Db 354 N 354

Thu Mar 13 18:07:20 2003

us-09-600-787-1.rapb

Search completed: March 13, 2003, 18:08:33
Job time : 14 secs

FILE OF INVENTION: USPAI AND USPAZ ANTIGENS OF MORAXELLA CATARRHALIS
FILE REFERENCE: AMCY:024
CURRENTE APPLICATION NUMBER: 00-000-0000-0000

*
CURRENT FILING DATE: 1999-06-21
NUMBER OF SEQ ID NOS: 98
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 7
LENGTH: 624
TYPE: PRT
ORGANISM: Moraxella catarrhalis
US-09-336-447A-7

Query Match 28.0%; Score 171; DB 4; Length 624;
Best Local Similarity 34.7%; Pred. No. 1.4e-08;
Matches 43; Conservative 19; Mismatches 50; Indels 12; Gaps 4;

QY 5 NTISGSNNVTYRSGSKVNLAGNDNTVYSGDNNVSYSNNNTVYSGNDNTVYSGNNHYVSGT-N 63
DB 104 NQAKGEHSTIAGGESNQATGRNSTVAGCGNNQAVGTNSTVAGSGNNQAKGANSFAGVGN 163
QY 64 HVTDN-----NNVSGNDNNVSGSFHTVSGGHTV--SGSNNTVSGSNHYVSG---SN 112
DB 164 QANTNVAVALGKNNTINGNNSAIGSENTVNEOKNVFILSNTTINAGSGSVLLGHETSG 223
QY 113 KVVY 116
DB 224 KEAT 227

RESULT 3
US-09-336-447A-9
Sequence 9, Application US/09336447A
Patent No. 6310190

GENERAL INFORMATION:
APPLICANT: HANSEN, ERIC J.
APPLICANT: AEBI, CHRISTOPH
APPLICANT: COPE, LESLIE D.
APPLICANT: MACIVER, ISOBEL
APPLICANT: FISKE, MICHAEL J.
APPLICANT: FREDENBURG, ROSS A.
TITLE OF INVENTION: USPA1 AND USPA2 ANTIGENS OF MORAXELLA CATARRHALIS
FILE REFERENCE: AMCY:024
CURRENT APPLICATION NUMBER: US/09/336,447A
CURRENT FILING DATE: 1999-06-21
NUMBER OF SEQ ID NOS: 98
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 9
LENGTH: 941
TYPE: PRT
ORGANISM: Moraxella catarrhalis
US-09-336-447A-9

Query Match 27.8%; Score 169.5; DB 4; Length 941;
Best Local Similarity 35.8%; Pred. No. 3.2e-08;
Matches 43; Conservative 18; Mismatches 50; Indels 9; Gaps 4;

QY 5 NTISGSNNVTYRSGSKVNLAGNDNTVYSGDNNVSYSNNNTVYSGNDNTVYSGNNHYVSGT-N 63
DB 108 NEAIGKSTYGGGFTMEAMEYSTVAGGANNQAKGNTSTVGGGNGKKAIGNNSTVYVGGSN 167
QY 64 HVTDNNNNNVSGNDNNV---SGSF---HTVSGGHTV--GSNNTVSGSNHYVSGSKVY 115
DB 168 NQAKGEHSTIAGGKKNQATGNGSFAAGVENKADANNANVALGKNNTLEGNTSVAGISNNTV 227

RESULT 4
US-09-336-447A-15
Sequence 15, Application US/09336447A
Patent No. 6310190
GENERAL INFORMATION:
APPLICANT: HANSEN, ERIC J.
APPLICANT: AEBI, CHRISTOPH
APPLICANT: COPE, LESLIE D.
APPLICANT: MACIVER, ISOBEL
APPLICANT: FISKE, MICHAEL J.
APPLICANT: FREDENBURG, ROSS A.

*
TITLE OF INVENTION: USPA1 AND USPA2 ANTIGENS OF MORAXELLA CATARRHALIS
FILE REFERENCE: AMCY:024
CURRENT APPLICATION NUMBER: US/09/336,447A
CURRENT FILING DATE: 1999-06-21
NUMBER OF SEQ ID NOS: 98
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 15
LENGTH: 889
TYPE: PRT
ORGANISM: Moraxella catarrhalis
US-09-336-447A-15

Query Match 27.2%; Score 166; DB 4; Length 889;
Best Local Similarity 29.6%; Pred. No. 6.5e-08;
Matches 40; Conservative 14; Mismatches 57; Indels 24; Gaps 3;

QY 5 NTISGSNNVTYRSGSKVNLAGNDNTVYSGDNNVSYSNNNTVYSGNDNTVYSGNNHYVSG--T 62
DB 226 NLAEGKSSAIGGEFNLALGNATTTISGGRONASGDRSTVAGGEQNAIGKYSTISGRO 285
QY 63 NHVTDNNNVSGNDNNVSGSFHTVSGH-----NTVS-GSNNV 100
DB 286 NEASGDRSTVAGGEQNAIGKYSTVSGCYRNQATGKGSFAAGIDNKANADNAVALGKNNT 345
QY 101 VSGSNHYVSGSKVY 115
DB 346 IEGENSVAIGSNNTV 360

RESULT 5
US-09-336-447A-13
Sequence 13, Application US/09336447A
Patent No. 6310190

GENERAL INFORMATION:
APPLICANT: HANSEN, ERIC J.
APPLICANT: AEBI, CHRISTOPH
APPLICANT: COPE, LESLIE D.
APPLICANT: MACIVER, ISOBEL
APPLICANT: FISKE, MICHAEL J.
APPLICANT: FREDENBURG, ROSS A.
TITLE OF INVENTION: USPA1 AND USPA2 ANTIGENS OF MORAXELLA CATARRHALIS
FILE REFERENCE: AMCY:024
CURRENT APPLICATION NUMBER: US/09/336,447A
CURRENT FILING DATE: 1999-06-21
NUMBER OF SEQ ID NOS: 98
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 13
LENGTH: 873
TYPE: PRT
ORGANISM: Moraxella catarrhalis
US-09-336-447A-13

Query Match 24.7%; Score 150.5; DB 4; Length 873;
Best Local Similarity 26.7%; Pred. No. 1.8e-06;
Matches 40; Conservative 24; Mismatches 47; Indels 39; Gaps 5;

QY 5 NTISGSNNVTYRSGSKVNLAGNDNTVYSGDNNVSYSNNNTVYSGNDNTVYSGNNHYVSG--T 62
DB 114 NQAKGEHSTIAGGKKNQATGNTSTVGGGNGKKAIGNNSTVYVGGSN 173
QY 63 NHVTDN-----NNVSGNDNNVSGSF---HTVSGG----- 90
DB 174 NQATNENSTVGGGRNQATGRNSTVAGGYKKNKATGVDSTIAGRNNQANGISFAAGIDN 233
QY 91 ----HNTVS-GSNNTVSGSNHYVSGSKVY 115
DB 234 QANANTVALGKNNTIKGDSVAIGSNNTV 263

RESULT 6
US-09-336-447A-1
Sequence 1, Application US/09336447A
Patent No. 6310190

RESULT 8
US-08-569-166-34
Sequence 34, Application US/08569166
Patent No. 5830722
GENERAL INFORMATION:
APPLICANT: NICHOLS, LUC
APPLICANT: CHARLES, JEAN-FRANCOIS
APPLICANT: DEBECLOUSE, ANSELME
APPLICANT: BARROY, FREDERIQUE

RESULT 9
US-08-737-716-14
Sequence 14 Application US/08737716
Patent No. 5955258
GENERAL INFORMATION:
APPLICANT: Gilbe BUIST
APPLICANT: Gerard VENEMA
APPLICANT: Jan KOK
APPLICANT: Adrianus Marinus LEDERBOER
TITLE OF INVENTION: Process for the lysis of a culture of lactic
TITLE OF INVENTION: acid bacteria by means of a lysin, and uses of the resulting
TITLE OF INVENTION: lysed culture.
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pillsbury Madison & Sutro, L.L.P.
STREET: 1100 New York Avenue, N.W.
CITY: Washington

```

STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20005-3918
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/737,716
FILING DATE: 22-APR-1997
CLASSIFICATION: 435
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: PCT/NL95/00170
FILING DATE: 12-MAY-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94201353.3
FILING DATE: 12-MAY-1994
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 666 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
ORIGINAL SOURCE:
ORGANISM: Enterococcus hirae
IMMEDIATE SOURCE:
CLONE: F19.5a (E. hirae)
US-03-737-716-14

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Query Match          19.1%; Score 116.5; DB 2; Length 666;
Best Local Similarity 31.0%; Pred. No. 0.0021;
Matches 39; Conservative 19; Mismatches 45; Indels 23; Gaps 5;

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QY 8 SGSNNTVRSGSKNVLAGNDNTVISGDNNSVSGSNNTVSG-----NDNTVT----- 53
DB 306 SSTNTGNNGNASSGNTSGNTNT--SGSTGQATGAKYTKSGDSYWKLANDHGISMQLIEM 363
QY 54 ---GSNHHVYSGTHIYTDNNNNVSGNDNNV---GSFHTVSGGHTVSGSNNTVSGSNHV 107
DB 364 NNKNNVYFGQQLVYVSKSSASGTSNTSTGNTSNTANTG-STTSGSTYTVKAGEV 422
QY 108 VSGSNK 113
DB 423 WSVSNK 428

RESULT 10
US-09-206-942-35
; Sequence 35, Application US/09206942
; Patent No. 6432669
; GENERAL INFORMATION:
; APPLICANT: Looismore, Sheena M.
; APPLICANT: Yang, Yan-ping
; APPLICANT: Klein, Michel H.
; TITLE OF INVENTION: Protective Recombinant Haemophilus Influenzae High
; FILE REFERENCE: 1038-861 MTS:jb
; CURRENT APPLICATION NUMBER: US/09/206,942
; EARLIER FILING DATE: 1998-12-08
; EARLIER APPLICATION NUMBER: 09/167,568
; NUMBER OF SEQ ID NOS: 95
; SOFTWARE: Patentln Ver. 2.1
; SEQ ID NO 35
; LENGTH: 915
; TYPE: PRT
; ORGANISM: Haemophilus influenzae
US-09-206-942-35

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```

Query Match          18.0%; Score 110; DB 4; Length 915;
Best Local Similarity 28.9%; Pred. No. 0.013;
Matches 37; Conservative 20; Mismatches 53; Indels 18; Gaps 5;

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QY 2 EQPNTISGNNTVRSGSKNVLAGNDNTVISGDNNSVSGSNNTVSG---NDNTVGSNHV 58
DB 398 ENVTTKAGTTINATGSEVETAKTGD--IKGIESNGSNVNTASGDTLVNSITGQNT 455
QY 59 VSGTHIY-----TDNNNNVSGDNNSVSGSFHTVSGGHTVSGSNNTVSGSNHV 108
DB 456 VAAASCAVTTTKGSTINATIGNNITTKTGEINGEVKSAGSNV--ITASGNTLVNSN--I 512
QY 109 SGNKRYVT 116
DB 513 TQGNVTVT 520

RESULT 11
US-09-206-942-37
; Sequence 37, Application US/09206942
; Patent No. 6432669
; GENERAL INFORMATION:
; APPLICANT: Looismore, Sheena M.
; APPLICANT: Yang, Yan-ping
; APPLICANT: Klein, Michel H.
; TITLE OF INVENTION: Protective Recombinant Haemophilus Influenzae High
; FILE REFERENCE: 1038-861 MTS:jb
; CURRENT APPLICATION NUMBER: US/09/206,942
; EARLIER FILING DATE: 1998-12-08
; EARLIER APPLICATION NUMBER: 09/167,568
; NUMBER OF SEQ ID NOS: 95
; SOFTWARE: Patentln Ver. 2.1
; SEQ ID NO 37
; LENGTH: 1222
; TYPE: PRT
; ORGANISM: Haemophilus influenzae
US-09-206-942-37

```

```

Query Match          18.0%; Score 110; DB 4; Length 1222;
Best Local Similarity 28.9%; Pred. No. 0.018;
Matches 37; Conservative 20; Mismatches 53; Indels 18; Gaps 5;

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QY 2 EQPNTISGNNTVRSGSKNVLAGNDNTVISGDNNSVSGSNNTVSG---NDNTVGSNHV 58
DB 705 ENVTTKAGTTINATGSEVETAKTGD--IKGIESNGSNVNTASGDTLVNSITGQNT 762
QY 59 VSGTHIY-----TDNNNNVSGDNNSVSGSFHTVSGGHTVSGSNNTVSGSNHV 108
DB 763 VAAASCAVTTTKGSTINATIGNNITTKTGEINGEVKSAGSNV--ITASGNTLVNSN--I 819
QY 109 SGNKRYVT 116
DB 820 TQGNVTVT 827

RESULT 12
US-09-206-942-34
; Sequence 34, Application US/09206942
; Patent No. 6432669
; GENERAL INFORMATION:
; APPLICANT: Looismore, Sheena M.
; APPLICANT: Yang, Yan-ping
; APPLICANT: Klein, Michel H.
; TITLE OF INVENTION: Protective Recombinant Haemophilus Influenzae High
; FILE REFERENCE: 1038-861 MTS:jb
; CURRENT APPLICATION NUMBER: US/09/206,942
; EARLIER FILING DATE: 1998-12-08
; EARLIER APPLICATION NUMBER: 09/167,568
; NUMBER OF SEQ ID NOS: 95
; SOFTWARE: Patentln Ver. 2.1
; SEQ ID NO 34
; LENGTH: 1228

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TYPE: PRT
ORGANISM: Haemophilus influenzae
US-09-206-942-34

Query Match
Best Local Similarity 18.0%; Score 110; DB 4; Length 1228;
Matches 37; Conservative 20; Mismatches 53; Indels 18; Gaps 5;

QY 2 EDPNTSSGNNVTGSGSKNVLGNDNTVIGSDNNVSFG---NDNTVSGSNHV 58
DB 711 ENVTAKATTINATGSEVETAKTGD--IKGIESNSGNVITASGDTLVNSNITGQVNT 768
QY 59 VSGTTHIV-----TDNNNVSGNDNNVSFGHTVSGGHNVTGSGSNHV 108
DB 769 VAAAGAVTTKGTINATGNANITTKTGEINGEVKASGNVN-ITASGNTLVNSN--I 825
QY 109 SGSNNKVT 116
DB 826 TGNVTVT 833

RESULT 13
US-08-728-470-9
Sequence 9, Application US/08728470
Patent No. 5928651
GENERAL INFORMATION:
APPLICANT: Barenkamp, Stephen J
TITLE OF INVENTION: High Molecular Weight Surface Proteins
TITLE OF INVENTION: of No. 5928651-Typeable Haemophilus
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Shoemaker and Maltare, Ltd.
STREET: 2001 Jefferson Davis Hwy., 1203 Crystal Plaza
STREET: Bldg. 1
CITY: Arlington
STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22202-0286
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/728,470
FILING DATE:
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/302,832
FILING DATE: 16-MAR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US PCT/US93/02166
FILING DATE: 16-MAR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Berkstresser, Jerry W
REGISTRATION NUMBER: 9205704.1
REFERENCE/DOCKET NUMBER: 22,651
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 415-0810
TELEFAX: (703) 415-0813
INFORMATION FOR SEO ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 1338 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-728-470-9
Query Match
Best Local Similarity 17.9%; Score 109; DB 2; Length 1338;
Matches 26.8%; Pred. No. 0.026;

Matches 30; Conservative 24; Mismatches 46; Indels 12; Gaps 5;

QY 8 SGSNNVTGSGSKNVLGNDNTVIGSDNNVSFG---SNNVTGSDNTVTSNHNVSQTNH 64
DB 881 AAGVTTKEGT-TINATGSEVETAKTGD--IKGIESNSGNVITASGDTLVNSNITGQVNT 768
QY 65 IYDNNNNVSGNDNNVSFGHTVSGGHNVTGSGSNHV 116
DB 940 TV-----NISTKTGDIKGIESTSGSNVN-ITASGNTLVNSN--ITGQDVTVT 983

RESULT 14
US-08-719-641-9
Sequence 9, Application US/08719641
Patent No. 6218141
GENERAL INFORMATION:
APPLICANT: Barenkamp, Stephen J
TITLE OF INVENTION: High Molecular Weight Surface Proteins
TITLE OF INVENTION: of No. 6218141-Typeable Haemophilus
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Shoemaker and Maltare, Ltd.
STREET: 2001 Jefferson Davis Hwy., 1203 Crystal Plaza
STREET: Bldg. 1
CITY: Arlington
STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22202-0286
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/719,641
FILING DATE:
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/302,832
FILING DATE: 16-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US PCT/US93/02166
FILING DATE: 16-MAR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Berkstresser, Jerry W
REGISTRATION NUMBER: 9205704.1
REFERENCE/DOCKET NUMBER: 22,651
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 415-0810
TELEFAX: (703) 415-0813
INFORMATION FOR SEO ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 1338 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-719-641-9
Query Match
Best Local Similarity 17.9%; Score 109; DB 4; Length 1338;
Matches 30; Conservative 24; Mismatches 46; Indels 12; Gaps 5;

RESULT 15
US-08-728-470-10
Sequence 10, Application US/08728470
Patent No. 5928651
GENERAL INFORMATION:
APPLICANT: Barenkamp, Stephen J
TITLE OF INVENTION: High Molecular Weight Surface Proteins
TITLE OF INVENTION: of No. 5928651-Typeable Haemophilus
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Shoemaker and Mattare, Ltd.
STREET: 2001 Jefferson Davis Hwy., 1203 Crystal Plaza
CITY: Arlington
STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22202-0286
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/728,470
FILING DATE:
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/302,832
FILING DATE: 16-MAR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US PCT/US93/02166
FILING DATE: 16-MAR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9205704.1
FILING DATE: 16-MAR-1992
ATTORNEY/AGENT INFORMATION:
NAME: Berkstresser, Jerry W
REGISTRATION NUMBER: 22,651
REFERENCE/DOCKET NUMBER: 1038-633
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 415-0810
TELEFAX: (703) 415-0813
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 1529 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-03-728-470-10
Query Match * 17.9%; Score 109; DB 2; Length 1529;
Best Local Similarity 26.8%; Pred. No. 0.03;
Matches 30; Conservative 24; Mismatches 46; Indels 12; Gaps 5;
OY 8 SGNMNVRSKSKVLAGNDNTVSGDNNVSQ---SNNTVSGNDNTVSGNHHVSGTNH 64
DB 1072 AAGNVTTKEGT-TINATTSVEVTAQNGTIGKNTISQNTVTATENLVTTENAVINATISG 1130
OY 65 IYTDNNNNVSGNDNNVSGSFHTVSGGHNNTVSGSNNNTVSGSNHHVSGSKNKVYT 116
DB 1131 TV-----NISTKTGDIKGGIESTISGNVN-ITAGNTLKVSN-ITGQDVTVT 1174
Search completed: March 13, 2003, 18:05:04
Job time: 17 secs